

GP-303423

DUAL OIL SUPPLY PUMP

ABSTRACT OF THE DISCLOSURE

An automotive engine oil pump assembly having first and second pump mechanisms contained within a common housing. A shaft rotatably supported in the housing drives the pump mechanisms in a conventional manner. The pump mechanisms are offset in phase to reduce flow pulsations through the housing and limit pump noise and vibration. The first pump mechanism communicates with a common inlet and first outlet of the housing. The second pump mechanism communicates with the common inlet and second outlet of the housing. A common reservoir connected to inlets of the first and second oil pump mechanisms provides a supplemental oil source to balance oil pressures at the pump inlets to prevent pump cavitation and further reduce pump noise and vibration.